

Notice of Allowability

Application No.

10/720,105

Applicant(s)

FACCIN ET AL.

Examiner

Henry Baron

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/25/2003.
2. ☒ The allowed claim(s) is/are 1-41.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892) ✓
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08) ✓
Paper No./Mail Date 02/02/2006
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment ✓
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION***Allowable Subject Matter***

1. Claims 1-41 are allowed in application 10/720,105 in view of a comprehensive search of the prior art. The Examiner notes that none of the prior art teaches the element "transmitting, during the application level communication connection setup procedure, a trigger signal from an application layer to a network layer in the mobile node wherein the trigger signal comprises the address of the correspondent node;" of Claim 1 (Examiner's emphasis added).
2. O'Neill (U.S. 2002/0191593) hereafter O'Neill, teaches of a mobile communications system that uses IP packets to transmit data between end nodes, such as mobile devices where end nodes, e.g. mobile and correspondence nodes, communicate with one another through access nodes that incorporate a session signaling server module e.g. application layer SIP and mobility agent module e.g. network layer (M)IPv(4 or 6). The mobility agent and SIP server within an access node are identified using a single shared identifier, e.g. an IP address. (Abstract). O'Neill teaches of that communication within the access node are facilitated across a bus (4:[0028]) where modules may exchange data, information, or signals. (4:[0029]). In 4:[0032], O'Neill describes the function of the mobility agent module and in 4:[0031] describes the function of the session signaling server module, concluding 4:[0035] where O'Neill teaches that "incorporating a session signaling server module, mobility agent module...inside the housing 211 of an access node 200 .. provides significant advantages in terms of signaling complexity associated with session establishment and maintenance ..".
3. However, O'Neill does not teach during application level communication setup of a trigger signal from an application layer to a network layer in the mobile node.
4. The applicant may find of interest the IEEE publication Huang, et. al, A novel SIP-Based Route Optimization for Network Mobility, IEEE Journal on Selected Areas in Communications, Vol 24, No. 9, September 2006, which teaches of a SIP network mobility (SIP-NEMO) scheme to that achieves route optimization between two SIP clients (Abstract) and is cited here as reference.
5. In a like manner, IEEE articles Wong, K., et al., A Multilayered Mobility Management Scheme for Auto-Configured Wireless IP Networks, IEEE Wireless Communications, October 2003 and Lopez, G., et

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al. A MIP-SIP Macro Mobility Management Scheme for VoIP Across Wired and Wireless Domains, IEEE 2004 are cited here as references.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Baron whose telephone number is (571) 270-1748. The examiner can normally be reached on 7:30 AM to 5:00 PM E.S.T. Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bruce can be reached on (571) 272-2487. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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DAVID BRUCE
SUPERVISORY PATENT EXAMINER